

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



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basic imagery interpretation report

Leningrad Aircraft Engine Plant 117 (S)

STRATEGIC WEAPONS INDUSTRIAL FACILITIES

USSR

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JUNE 1980

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INSTALLATION OR ACTIVITY NAME					COUNTRY
Leningrad Aircraft Engine Plant 117					UR
UTM COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY	BE NO.	COMIREX NO.	NIETB NO.
NA	59-58-50N 030-20-24E				

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MAP REFERENCE

SAC. USATC, Series 200, Sheet 0153-4, scale 1:200,000 (UNCLASSIFIED)

LATEST IMAGERY USED	NEGATION DATE (If required)
	NA

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ABSTRACT

1. (TSR) This report updates NPIC report and discusses construction and production activity observed at Leningrad Aircraft Engine Plant 117 from (the cutoff date of the previous report) through (the information and imagery cutoff date for this report).

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2. (S/WNINTEL) This report includes both the main plant area, which was previously reported, and the previously unidentified north plant area. The increase of floorspace during this period was 26,507 square meters, of which 23,111 square meters are in the previously unidentified north plant area. The overall plant floorspace on was 96,951 square meters.

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3. (S/WNINTEL) Leningrad Aircraft Engine Plant 117 is the location of S.P. Izotov special design bureau (OKB) which is known to be associated mainly with the development of turboshaft helicopter engines such as the TV2-117, TV3-117, and GTD-350.

4. (S) This report includes a location map, three annotated photographs, and a table of mensural and chronological data.

BASIC DESCRIPTION**North Plant Area**

5. (TSR) Leningrad Aircraft Engine Plant 117 (Figure 1) consists of the previously reported main plant area¹ and the north plant area, which was recently identified and had not previously been reported.

6. (TSR) The north plant area is approximately 500 meters northwest of the main plant area (Figure 2) and consists of a laboratory/engineering building, an engineering/shop building, three shop buildings, one shop/workshop building, one storage building, and one storage/support building (Figure 3). These eight buildings contain 23,111 square meters of floorspace. Six of the buildings, consisting of 22,772 square meters (98 percent) of the floorspace, are direct support buildings. The two remaining buildings, consisting of 339 square meters (2 percent) of the floorspace, are general-purpose buildings.

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7. [] Reportedly, north plant area personnel are involved in researching sections of aircraft engines, which are then assembled at the main plant area and tested in the engine testing facility.² 25X1

Construction Chronology

North Plant Area

8. (TSR) The earliest imagery available was 14 January 1943, at which time the plant area was not yet built. The next available overhead imagery was acquired on [] At that time, an engineering/shop building (item 32, Figure 3 and Table 1) and three shop buildings (items 31, 35 and 36) were observed complete. 25X1

9. (TSR) Between 1964 and 1969 no significant construction was completed. A storage building (item 33) and a storage/support building (item 34) were observed complete on [] 25X1
[] a shop/workshop building (item 29) was observed complete on imagery of [] 25X1
and the large laboratory/engineering building (item 30) was completed by [] No 25X1
significant construction has been observed in this area since 1972. The inclusion of the north plant area adds 23,111 square meters of floorspace to Plant 117.

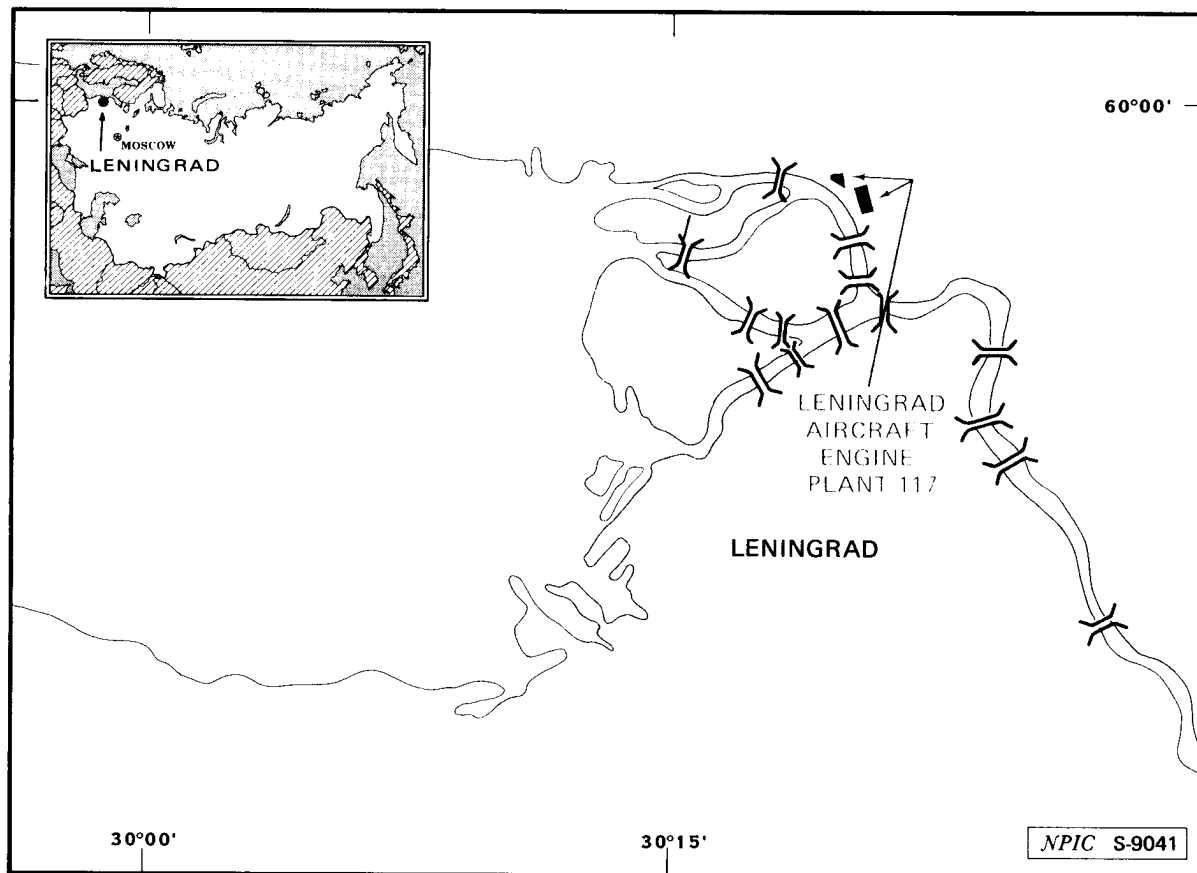


FIGURE 1. LOCATION OF LENINGRAD AIRCRAFT ENGINE PLANT 117, USSR

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Main Plant Area

10. (TSR) Construction in the main plant area has been moderate since the last report with no significant activity observed between November 1971 and May 1977. A shop building consisting of 2,078 square meters (item 25 in the previous report)¹ had been razed by [] to allow construction of the new administration/engineering building (item 38, Figure 4 and table 1). By [] the cooling pond had been filled in, and construction had begun on the administration/engineering building (item 38). Also, a water filtration building (item 37) was completed during this time, probably to replace the cooling pond. An administration building of 1,231 square meters (item 27 in the previous report)¹ had been razed by [] to allow construction of a new shop building (item 40).

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11. (TSR) On [] a storage building (item 39) was observed complete. The initial excavation for the new shop building (item 40) was observed on []

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12. (TSR) A shop building of 682.9 square meters (item 17)¹ had been razed by [] Also, the excavation for the new shop building (item 40) was complete and was [] deep. The administration/engineering building (item 38) appeared to be externally complete, and the new shop building (item 40) was in the midstage of construction on []

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Table 1. Mensural and Construction Data,
Leningrad Aircraft Engine Plant 117, USSR
(Keyed to Figures 3 and 4)

This table in its entirety is classified TOP SECRET RUFF

Item	Function	Dimensions* (m)			Floorspace (sq m)	Bldgs Observed Complete	Remarks	
		L	W	H				
17	Shop bldg						Razed by []	25X1
29	Shop/workshop bldg						North plant area**	25X1
30	Lab/engr bldg						North plant area	
31	Shop bldg						7 stories	
							North plant area;	
							high bay []	25X1
							aboveground	
32	Engr/shop bldg						North plant area	
33	Stor bldg						2 stories	
34	Stor/spt bldg						North plant area	
35	Shop bldg						North plant area	
36	Shop bldg						North plant area	
37	Water filtration bldg						Prob replaced	
							cooling pond razed;	
							for Bldg 38; first	
							observed ucon	
38	Admin/engr bldg						[]	25X1
							3 story section, []	25X1
							high, with one	
							4-story area	
39	Stor bldg						Quonset-type bldg	
40	Shop bldg						Single story above	
							ground; []	25X1
							deep shelter/base-	
							ment; first observed	
							ucon []	25X1
Total floorspace in Nov 1971					[]			25X1
Floorspace added since Nov 71								
Floorspace razed since Nov 71								
Total floorspace on []					sq m			25X1
								25X1

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13. (TSR) The additional floorspace (minus the [redacted] of the three razed 25X1 buildings) in the main plant area is 3,396 square meters. The overall increase in floorspace, including that in the north plant area, is 26,507 square meters.

Production/Research Activity

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[redacted] Because of the nature of the work at the plant, and since 25X1 production is mainly small scale and experimental, no significant sightings of aerospace-related equipment were made during this reporting period.

Security

15. (TSR) The north plant area is secured by a fence/wall with a pedestrian/vehicle gate on the southwestern edge of the area adjacent to the laboratory/engineering building. At the north end of the plant area, the security fence that surrounds the facility has been relocated to accommodate the new buildings under construction.

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REFERENCES

IMAGERY

(TSR) All available overhead imagery acquired between 14 January 1943 (GX) and [] was used in the preparation of this report.

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MAPS OR CHARTS

SAC. US Air Target Chart, Series 200, Sheet 0153-4, scale 1:200,000 (UNCLASSIFIED)

DOCUMENTS

1. NPIC, [], RCA-09/0039/72, *Leningrad Aircraft Engine Plant 117*, Mar 72 (TOP SECRET []) 25X1
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2. DoD. IIR 1-517-0233-76, *Experimental Aircraft Engine Plant "Klimova" in Leningrad*, 2 Sep 76 [] 25X1
[] 25X1
3. CIA. FIR-K-311/01341-78, *Missile Design, Development and Production Facilities in Moscow and Leningrad*, 19 Dec 78 (CONFIDENTIAL []) 25X1
4. DIA. DST-18505-009-78, *Air Breathing Propulsion Technology-Warsaw Pact Countries*, 5 May 78 (SECRET []) 25X1
5. CIA. FIR DB 312/00242-76, *Additional Information on Plants Engaged in the Production of Missile Engines*, 16 Jan 76 (SECRET []) 25X1

*Extracted material is classified TOP SECRET R.

REQUIREMENT

COMIREX J02
Project 290034DJ

(S) Comments and queries regarding this report are welcome. They may be directed to []
Warsaw Pact Forces Division, Imagery Exploitation Group, NPIC, []

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